

Shasta Lake Enlargement  
Common Reporting Metrics

Hasta Lake Enlargement Common Reporting Metrics				Base	Scenarios:					
					1		2		3	
					Water Supply, 6.5' Raise		Water Supply, 18.5' Raise		Water Supply and Anadromous Fish, 18.5' Raise	
				Value	Value	Difference	Value	Difference	Value	Difference
Water Supply Reliability										
Sacramento Valley										
CVP Ag	Contract Delivery (annual average - does not include Settlement Contract)	(TAF/year)	Long Term Driest Periods	238	248	10	254	16	263	25
				76	84	8	97	21	98	22
				182	184	2	184	3	185	3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Driest Periods	174	176	2	178	4	180	6
Bay Area										
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term Driest Periods	42	43	1	43	2	44	2
				16	17	2	19	4	20	5
				266	267	1	268	2	268	2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Driest Periods	250	252	2	254	4	256	5
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term Driest Periods	208	207	0	207	0	207	0
				123	125	2	123	0	123	0
				San Joaquin Valley (not including San Joaquin River and its tributary's water users)						
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal; does not include Exchange Contract)	(TAF/year)	Long Term Driest Periods	1,142	1,178	36	1,194	52	1,201	59
				415	459	45	514	99	545	130
				14	14	0	14	0	14	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Driest Periods	11	11	0	11	0	12	1
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term Driest Periods	958	956	-2	957	-1	958	0
				573	579	6	574	1	574	1
				14	15	0	14	0	14	0
Groundwater Banking	Delivery (annual average)	(TAF/year)	Driest Periods	13	9	-4	12	0	11	-1
South and Central Coast										
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term Driest Periods	2,233	2,224	-8	2,228	-5	2,227	-6
				1,330	1,330	0	1,325	-5	1,321	-9
Total For All Regions										
Ag, M&I and GW Banking	Delivery (annual average)	(TAF/year)	Long Term Driest Periods	5,297	5,335	39	5,366	69	5,380	84
				2,980	3,044	63	3,107	127	3,140	160
Ecosystem										
Sacramento River										
Shasta Lake	Percentage of period End-of-Sept Storage less than 1.9 MAF	(%)		19.2%	20.5%	1.4%	17.8%	-1.4%	17.8%	-1.4%
Delta										
X2 Location	Average X2 location (Feb - Jun)	(km from Golden Gate)	Long Term Driest Periods	69.4	69.5	0.0	69.5	0.0	69.5	0.0
				78.2	78.2	0.0	78.2	0.0	78.2	0.0
				3,972	3,946	-26	3,920	-52	3,923	-50
Qwest	Average Qwest (Feb - Jun)	(cfs)	Driest Periods	54	25	-29	6	-48	-8	-62
Delta Outflow	Average Outflow (Feb - Jun)	(cfs)	Long Term Driest Periods	28,865	28,795	-70	28,726	-139	28,712	-153
				9,718	9,676	-42	9,708	-9	9,690	-28
				EWA						
NOD	Delivered to Delta Inflow (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SOD	Delivered to San Luis (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Environmental Programs										
Delivery for Environmental Purposes	Total delivery (including ERP and other actions) (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Delta Water Quality										
Improve Delta Water Quality	Delivered to Delta Inflow (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Level 4 Refuge										
NOD	Delivery to Refuges (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SOD	Delivery to Refuges (annual average)	(TAF/year)	Long Term Driest Periods	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Water Quality										
San Joaquin River										
Vernalis	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	597	598	1	599	2	599	2
				746	747	1	750	4	751	5
				890	894	n/a	897	n/a	899	n/a
Delta										
Emmaton	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	1,135	1,134	-1	1,117	-18	1,119	-16
				1,624	1,618	-6	1,590	-34	1,595	-30
				2,512	2,517	n/a	2,475	n/a	2,489	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	2.6	2.6	0.0	2.6	0.0	2.6	0.0
				2.6	2.6	0.0	2.6	0.0	2.6	0.0
				3.5	3.5	n/a	3.5	n/a	3.5	n/a
Jersey Point	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	1,074	1,076	2	1,082	8	1,086	11
				1,359	1,361	2	1,383	23	1,390	31
				2,205	2,206	n/a	2,165	n/a	2,164	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	2.9	2.9	0.0	2.9	0.0	2.8	0.0
				2.8	2.8	0.0	2.8	0.0	2.7	0.0
				4.3	4.3	n/a	4.3	n/a	4.3	n/a
Bay Area										
	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	470	470	0	473	3	473	3
				565	564	-1	574	9	576	10
				846	839	n/a	845	n/a	846	n/a
Old River at Rock Slough	Bromide (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	0.34	0.34	0.00	0.34	0.00	0.34	0.00
				0.43	0.43	0.00	0.44	0.01	0.44	0.01
				0.70	0.69	n/a	0.70	n/a	0.70	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	3.3	3.3	0.0	3.3	0.0	3.3	0.0
				3.1	3.1	0.0	3.1	0.0	3.1	0.0
				5.0	4.9	n/a	4.9	n/a	4.9	n/a
	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	455	455	0	459	3	459	4
				538	537	-1	547	9	548	10
				745	736	n/a	747	n/a	747	n/a
Los Vaqueros Old River Intake	Bromide (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	0.26	0.26	0.00	0.27	0.00	0.27	0.00
				0.34	0.34	0.00	0.35	0.01	0.35	0.01
				0.54	0.54	n/a	0.55	n/a	0.55	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	3.7	3.7	0.0	3.7	0.0	3.6	0.0
				3.6	3.6	0.0	3.6	0.0	3.6	0.0
				5.3	5.3	n/a	5.2	n/a	5.2	n/a
	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	390	390	0	392	2	392	2
				454	452	-2	458	5	458	4
				551	547	n/a	565	n/a	562	n/a
Los Vaqueros Middle River Intake (Proposed)	Bromide (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	0.21	0.21	0.00	0.21	0.00	0.21	0.00
				0.26	0.26	0.00	0.26	0.00	0.26	0.00
				0.41	0.41	n/a	0.40	n/a	0.41	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	4.1	4.1	0.0	4.1	0.0	4.1	0.0
				4.2	4.1	0.0	4.1	0.0	4.1	0.0
				5.7	5.7	n/a	5.7	n/a	5.7	n/a
Delta Export										
	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	470	470	0	471	1	471	1
				564	563	-1	567	3	567	3
				708	702	n/a	708	n/a	709	n/a
Tracy	Bromide (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	0.28	0.28	0.00	0.28	0.00	0.28	0.00
				0.37	0.37	0.00	0.37	0.00	0.37	0.00
				0.51	0.50	n/a	0.51	n/a	0.51	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	3.7	3.7	0.0	3.7	0.0	3.7	0.0
				3.8	3.8	0.0	3.8	0.0	3.8	0.0
				5.2	5.2	n/a	5.2	n/a	5.2	n/a
	EC (monthly average)	(umhos/cm)	Long Term Driest Periods 90th Percentile	426	426	0	429	3	429	3
				505	503	-2	512	7	513	8
				672	667	n/a	676	n/a	677	n/a
Banks	Bromide (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	0.24	0.24	0.00	0.24	0.00	0.24	0.00
				0.31	0.31	0.00	0.32	0.01	0.32	0.01
				0.47	0.47	n/a	0.48	n/a	0.48	n/a
	DOC (monthly average)	(mg/l)	Long Term Driest Periods 90th Percentile	3.7	3.7	0.0	3.7	0.0	3.7	0.0
				3.8	3.8	0.0	3.8	0.0	3.8	0.0
				5.2	5.2	n/a	5.2	n/a	5.2	n/a
Other										
Delta Stage										
Old River Head Barrier - Upstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-0.34	-0.33	n/a	-0.39	n/a	-0.39	n/a
				0.23	0.23	n/a	0.23	n/a	0.23	n/a
				n/a	n/a	-0.06	n/a	-0.38	n/a	-0.38
Old River Head Barrier - Downstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.80	-1.80	n/a	-1.80	n/a	-1.80	n/a
				-1.21	-1.21	n/a	-1.21	n/a	-1.21	n/a
				n/a	n/a	-0.09	n/a	-0.39	n/a	-0.39
Middle River at Mowry	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.57	-1.57	n/a	-1.57	n/a	-1.57	n/a
				-1.04	-1.03	n/a	-1.07	n/a	-1.08	n/a
				n/a	n/a	-0.12	n/a	-0.50	n/a	-0.50
Middle River Barrier - Upstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.83	-1.83	n/a	-1.82	n/a	-1.83	n/a
				-1.46	-1.47	n/a	-1.51	n/a	-1.51	n/a
				n/a	n/a	-0.12	n/a	-0.58	n/a	-0.57
Middle River Barrier - Downstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.85	-1.84	n/a	-1.84	n/a	-1.84	n/a
				-1.63	-1.63	n/a	-1.63	n/a	-1.63	n/a
				n/a	n/a	-0.12	n/a	-0.28	n/a	-0.28
Old River at Tracy Rd Bridge	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-2.15	-2.15	n/a	-2.15	n/a	-2.15	n/a
				-1.76	-1.77	n/a	-1.77	n/a	-1.77	n/a
				n/a	n/a	-0.18	n/a	-0.41	n/a	-0.41
Old River Barrier - Upstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-0.34	-0.33	n/a	-0.39	n/a	-0.39	n/a
				0.23	0.23	n/a	0.23	n/a	0.23	n/a
				n/a	n/a	-0.06	n/a	-0.38	n/a	-0.38
Old River Barrier - Downstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.80	-1.80	n/a	-1.80	n/a	-1.80	n/a
				-1.21	-1.21	n/a	-1.21	n/a	-1.21	n/a
				n/a	n/a	-0.09	n/a	-0.39	n/a	-0.39
GLC East Barrier - Upstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.77	-1.77	n/a	-1.77	n/a	-1.77	n/a
				-1.26	-1.26	n/a	-1.27	n/a	-1.27	n/a
				n/a	n/a	-0.14	n/a	-0.56	n/a	-0.56
GLC West Barrier - Upstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-1.89	-1.89	n/a	-1.89	n/a	-1.89	n/a
				-1.55	-1.55	n/a	-1.57	n/a	-1.56	n/a
				n/a	n/a	-0.17	n/a	-0.55	n/a	-0.55
GLC West Barrier - Downstream	Stage (monthly minimum)	(ft NGVD)	Minimum 10th Percentile	-2.02	-2.01	n/a	-2.01	n/a	-2.01	n/a
				-1.70	-1.69	n/a	-1.69	n/a	-1.71	n/a
				n/a	n/a	-0.17	n/a	-0.34	n/a	-0.34
Delta Scouring										
Clifton Court Forebay Intake	Velocity (monthly maximum)	(ft/s)	Maximum 90th Percentile	4.1	4.1	n/a	4.1	n/a	4.1	n/a
				3.6	3.6	n/a	3.6	n/a	3.6	n/a
				2.6	2.6	n/a	2.6	n/a	2.6	n/a
Los Vaqueros Old River Intake	Velocity (monthly maximum)	(ft/s)	90th Percentile	2.4	2.4	n/a	2.4	n/a	2.4	n/a
Los Vaqueros Middle River Intake (Proposed)	Velocity (monthly maximum)	(ft/s)	Maximum 90th Percentile	1.5	1.5	n/a	1.5	n/a	1.5	n/a
				1.4	1.4	n/a	1.4	n/a	1.4	n/a